

From the INTERNATIONAL SEARCHING AUTHORITY

| To:                  |  |   |  | ·  | PCT  |       |
|----------------------|--|---|--|--|--|-------|
| see form PCT/ISA/220 |  |   |  | WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43 <i>bis</i> .1) |  |       |
|                      |  |   |  | Date of mailing (day/month/year)   | see form PCT/ISA/210 (second shee  | et)   |
|                      | cant's or agent's file reference form PCT/ISA/220  |   |  | FOR FURTHEF<br>See paragraph 2 be  |  |       |
|                      | national application No.<br>I/EP2004/051984  |   | International filing date (c 01.09.2004                | lay/month/year)  | Priority date (day/month/year) 28.11.2003  |       |
|                      | national Patent Classification<br>B7/005, H04Q7/36   | IPC) or   | both national classification                           | and IPC  |  |       |
| Appli<br>MO          | cant<br>TOROLA INC.  |   |  |  |  |       |
| 1.                   | □ Box No. IV Lack of □ Box No. V Reason applica □ Box No. VI Certain □ Box No. VII Certain | f the or<br>tablishing<br>unity of<br>ned state<br>bility; cond<br>document | pinion<br>ment of opinion with rega<br>of invention    | ard to novelty, inver<br>1(a)(i) with regard<br>supporting such so                   | ntive step and industrial applicat<br>to novelty, inventive step or ind<br>tatement  |       |
|                      | written opinion of the Inte  | rnation<br>Author<br>er Rule  | al Preliminary Examining<br>ity other than this one to | g Authority ("IPEA")<br>be the IPEA and t  | vill usually be considered to be<br>. However, this does not apply<br>ne chosen IPEA has notifed the<br>national Searching Authority | where |
|                      | submit to the IPEA a writ  | en repl   | ly together, where appro                               | priate, with amend:  | e IPEA, the applicant is invited<br>nents, before the expiration of t<br>on of 22 months from the priorit                            | three |
|                      | For further options, see F   | orm PO  | CT/ISA/220.  |  |  |       |
| 3.                   | For further details, see no  | otes to   | Form PCT/ISA/220.                                      |  |  |       |
|                      | 1.   |   |  |  |  | · .   |

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### 10/573006 IAP9 Recal PCT/PTO 21 MAR 2006

## WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/EP2004/051984

| _  | Вох    | No. I   | Basis of the opinion   |
|----|--------|---------|--|
| 1. |        |         | d to the <b>language</b> , this opinion has been established on the basis of the international application in ge in which it was filed, unless otherwise indicated under this item.  |
|    | 1      | langua  | pinion has been established on the basis of a translation from the original language into the following age , which is the language of a translation furnished for the purposes of international search r Rules 12.3 and 23.1(b)).   |
| 2. |        |         | d to any <b>nucleotide and/or amino acid sequence</b> disclosed in the international application and to the claimed invention, this opinion has been established on the basis of:  |
|    | a. tyr | pe of r | material:  |
|    |        | las     | equence listing  |
|    |        | l tab   | ele(s) related to the sequence listing   |
|    | b. for | rmat o  | of material:   |
|    | . 🗆    | in v    | written format   |
|    |        | ) in o  | computer readable form   |
|    | c. tim | ne of f | iling/furnishing:  |
|    |        | ) coi   | ntained in the international application as filed.   |
|    |        | ] file  | d together with the international application in computer readable form.   |
|    |        | ] fur   | nished subsequently to this Authority for the purposes of search.  |
| 3. | · (    | has be  | lition, in the case that more than one version or copy of a sequence listing and/or table relating thereto een filed or furnished, the required statements that the information in the subsequent or additional is is identical to that in the application as filed or does not go beyond the application as filed, as priate, were furnished. |
| 4. | Addit  | tional  | comments:  |

## WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/EP2004/051984

| _  | Box         | x No. II Priority  |                            |                             |   |   |
|----|-------------|--|----------------------------|-----------------------------|---|---|
| 1. | $\boxtimes$ | The following document   | has not bee                | en furnished                | d:  |   |
|    |             |  | er applicatio              | n whose pr                  | riority has been clain                    | ned (Rule 43 <i>bis</i> .1 and 66.7(a)).  |
|    | •           | ☐ translation of the   | earlier app                | lication who                | ose priority has beer                     | n claimed (Rule 43 <i>bis</i> .1 and 66.7(b)).  |
|    |             |  |                            |                             |   | e priority claim. This opinion has date is the claimed priority date.   |
| 2. |             |  | Rules 43 <i>bis</i>        | .1 and 64.1                 | l). Thus for the purp                     | d due to the fact that the priority claim oses of this opinion, the international                             |
| 3. |             | was not available to the   | ISA at the ti              | me that the                 | e search was conduc                       | because a copy of the priority document cted (Rule 17.1). This opinion has date is the claimed priority date. |
| 4. | Add         | ditional observations, if ne   | cessary:                   |                             |   |   |
|    |             |  | ·                          |                             |   |   |
|    |             | x No. V Reasoned sta<br>lustrial applicability; cita                           |                            |                             |   | ard to novelty, inventive step or h statement   |
| 1. | Sta         |  |                            |                             |   |   |
|    | Ota         | atement  |                            |                             |   |   |
|    |             | velty (N)  | Yes:<br>No:                | Claims<br>Claims            | 3-7,8-11,14-16<br>1-2,12-13               |   |
|    | Nov         |  | No:                        |                             |   |   |
|    | Nov         | velty (N)  | No:<br>Yes:<br>No:         | Claims                      | 1-2,12-13<br>8,10-11,15                   |   |
| 2. | Inve        | velty (N)<br>entive step (IS)  | No:<br>Yes:<br>No:<br>Yes: | Claims Claims Claims Claims | 1-2,12-13<br>8,10-11,15<br>1-7,9,12-14,16 |   |
| 2. | Nov<br>Inve | velty (N) entive step (IS) lustrial applicability (IA)                         | No:<br>Yes:<br>No:<br>Yes: | Claims Claims Claims Claims | 1-2,12-13<br>8,10-11,15<br>1-7,9,12-14,16 |   |
| 2. | Nov<br>Inve | velty (N) entive step (IS) lustrial applicability (IA) ations and explanations | No:<br>Yes:<br>No:<br>Yes: | Claims Claims Claims Claims | 1-2,12-13<br>8,10-11,15<br>1-7,9,12-14,16 |   |

Form PCT/ISA/237 (January 2004)

see separate sheet

## WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/EP2004/051984

### Box No. VIII Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

see separate sheet

#### Re Item V.

1. Reference is made to the following documents:

D1: US-A-6094585 D2: EP-A-1280285 D3: WO03-A-096571 D4: US-B-6577880

- 2. The document D1, which is considered to be the closest prior art, discloses a cell divided into a plurality of sectors comprising the following steps and features set out in claims 1 and 13:
  - generating downlink power information for a multi-sector base transceiver site in which power can be shared between the sectors (see col.1, lines 28-39),
  - gathering downlink power information for each sector (see Fig. 3-4 and col.3, lines 48-58 and col.5, lines 1-13),
  - modifying the gathered downlink power information (see Fig. 3-4 and col.3, lines 58-66 and col.5, lines 13-15),
  - forwarding the modified downlink power information to a radio resource manager controlling the multi-sector base transceiver site (see Fig. 3-4 and col.3, line 67 to col.4, line 7 and col.5, lines 15-25).

Thus, the subject-matter of claims 1 and 13 is not novel (Article 33(2) PCT).

3. Moreover, an inventive step objection appears to be possible with regard to D2 and the knowledge of the skilled person.

The document D2 discloses a cell divided into a plurality of sectors comprising the following steps and features set out in claims 1 and 13:

- a multi-sector base transceiver site in which power can be shared between the sectors (see Fig.2 and Pg.2, col.2, lines 49-58),
- gathering downlink power information for each sector (see Fig.1 and Pg.3, col.4, line

# WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (SEPARATE SHEET)

52 to col.5, line 3)

- modifying the gathered downlink power information (see Pg.4, col.6, line 52 to col.7, line 20).

### Claim 1 further defines:

- forwarding the modified downlink power information to a radio resource manager controlling the multi-sector base transceiver site.

However, forwarding power measurements from a base station to a radio resource manager in order to perform power allocation is a common practice in third generation wireless communications, see for example D3 (abstract and Fig.5 and Fig.7 and Pg.4, line 6 to Pg.6, line 19) or D4 (Fig.7 and col.9, lines 25-65 and col.12, line 38 to col.14, line 29 and.

Thus, the present application does not meet the requirements of Article 33(3) PCT because the subject-matter of claims 1 and 13 does not involve an inventive step.

- 4. D1 (see Fig.4) also discloses all the features of claim 12.
- 5. The following dependent claims do not appear to contain any additional features which, in combination with the features of **claims 1 or 13** to which they refer, could form subject matter which meets the requirements in respect of novelty (Article 33(2) PCT) or inventive step (Article 33(3) PCT), the reasons being as follows:

Claims 2 and 3: the additional features are already known from D1 (see col.5, lines 1-20) and D2 (see Pg.5, col.7, lines 9-17).

Claims 4 and 5: the additional features are already known from D2 (see Pg.5, col.7, lines 17-33).

Claims 6, 14 and 16: Routine option.

Claim 7: the additional features are already known from D2 (see Pg.5, col.7, paragraph 18).

Claim 9: the additional features are already known from D2 (see Pg.4, col.5, lines 8-27).

### Re Item VIII. Certain observations on the international application

The following claims do not meet the requirements of Article 6 PCT in that the matter for which protection is sought is not clearly defined, the reasons being as follows:

### a) Claim 1:

The meaning of the sentence "downlink power information for each sector" in claim 1 is ambiguous in relation to the information stated in the description (see Pg.5, lines 10-12 and Pg.6, line 18 to Pg.7, line 10) because "downlink power information" has a different specific meaning for the person skilled in the power control field, rendering therefore the scope of the claim unclear. Thus, for the purpose of examination, it is assumed that this sentence should actually read "downlink transmission power required for each sector".

### b) Claim 12:

Product claim 10 is not clear, because the claim refers back also to method claims 1-

### Re Item VII. Certain defects in the international application

- 1. Independent claims are not in the two-part form in accordance with Rule 6.3(b) PCT.
- 2. The features of the claims are not provided with reference signs placed in parentheses (Rule 6.2(b) PCT).
- 3. Contrary to the requirements of Rule 5.1(a)(ii) PCT, the relevant background art disclosed in documents D1 to D4 is not mentioned in the description, nor are these documents identified therein.